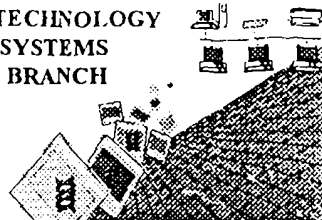


BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/714,564
Source: IFWJ -
Date Processed by STIC: 11/29/03

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221

Effective 12/12/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER**
VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/03):
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 4B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03



IFWO

RAW SEQUENCE LISTING

DATE: 11/29/2003

PATENT APPLICATION: US/10/714,564

TIME: 11:22:56

Input Set : E:\418.app.txt

Output Set: N:\CRF4\11282003\J714564.raw

4 <110> APPLICANT: Blaschuk, Orest W.
 5 Michaud, Stephanie D.
 7 <120> TITLE OF INVENTION: COMPOUNDS AND METHODS FOR MODULATING
 8 FUNCTIONS OF NONCLASSICAL CADHERINS
 11 <130> FILE REFERENCE: 100086.418
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/714,564
 14 <141> CURRENT FILING DATE: 2003-11-14
 16 <160> NUMBER OF SEQ ID NOS: 1402
 18 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 6
 22 <212> TYPE: PRT
 23 <213> ORGANISM: Artificial Sequence
 25 <220> FEATURE:
 26 <223> OTHER INFORMATION: Trp-containing CAR sequence
W--> 28 <221> NAME/KEY: VARIANT
 29 <222> LOCATION: 1
 30 <223> OTHER INFORMATION: Xaa = Glu or Ala
W--> 32 <221> VARIANT
 33 <222> LOCATION: 3
 34 <223> OTHER INFORMATION: Xaa = Ile or Val
W--> 36 <221> VARIANT
 37 <222> LOCATION: 4
 38 <223> OTHER INFORMATION: Xaa = Lys or Thr
W--> 40 <221> VARIANT
 41 <222> LOCATION: 5
 42 <223> OTHER INFORMATION: Xaa = Phe or Ala
W--> 44 <221> VARIANT
 45 <222> LOCATION: 6
 46 <223> OTHER INFORMATION: Xaa = Ala or Pro
W--> 48 <400> 1
W--> 49 Xaa Trp Xaa Xaa Xaa Xaa
 50 1 5
 53 <210> SEQ ID NO: 2
 54 <211> LENGTH: 5
 55 <212> TYPE: PRT
 56 <213> ORGANISM: Artificial Sequence
 58 <220> FEATURE:
 59 <223> OTHER INFORMATION: Trp-containing CAR sequence
 61 <400> SEQUENCE: 2
 62 Trp Ala Pro Ile Pro
 63 1 5
 66 <210> SEQ ID NO: 3

Don't Comply
 Don't Hate Needer

pp 4,6

RAW SEQUENCE LISTING

DATE: 11/29/2003

PATENT APPLICATION: US/10/714,564

TIME: 11:22:56

Input Set : E:\418.app.txt

Output Set: N:\CRF4\11282003\J714564.raw

```

67 <211> LENGTH: 5
68 <212> TYPE: PRT
69 <213> ORGANISM: Unknown
71 <220> FEATURE:
72 <223> OTHER INFORMATION: Calcium binding motif
74 <220> FEATURE:
75 <221> NAME/KEY: VARIANT
76 <222> LOCATION: 2
77 <223> OTHER INFORMATION: Xaa = any amino acid
79 <400> SEQUENCE: 3
W--> 80 Asp Xaa Asn Asp Asn
81 1 5
84 <210> SEQ ID NO: 4
85 <211> LENGTH: 4
86 <212> TYPE: PRT
87 <213> ORGANISM: unknown
89 <220> FEATURE:
90 <223> OTHER INFORMATION: Calcium binding motif
92 <400> SEQUENCE: 4
93 Leu Asp Arg Glu
94 1
97 <210> SEQ ID NO: 5
98 <211> LENGTH: 6
99 <212> TYPE: PRT
C--> 100 <213> ORGANISM: uencArtificial Sequence
102 <220> FEATURE:
103 <223> OTHER INFORMATION: Trp-containing CAR sequence
W--> 105 <221> NAME/KEY: VARIANT
106 <222> LOCATION: 1
107 <223> OTHER INFORMATION: Xaa = Gly, Asp or Ser
W--> 109 <221> VARIANT
110 <222> LOCATION: 3
111 <223> OTHER INFORMATION: Xaa = Val, Ile or Met
W--> 113 <400> 5
W--> 114 Xaa Trp Xaa Trp Asn Gln
115 1 5
118 <210> SEQ ID NO: 6
119 <211> LENGTH: 6
120 <212> TYPE: PRT
121 <213> ORGANISM: Artificial Sequence
123 <220> FEATURE:
124 <223> OTHER INFORMATION: Trp-containing CAR sequence
126 <400> SEQUENCE: 6
127 Ala Trp Val Ile Pro Pro
128 1 5
131 <210> SEQ ID NO: 7
132 <211> LENGTH: 4
133 <212> TYPE: PRT
134 <213> ORGANISM: unknown

```

RAW SEQUENCE LISTING

DATE: 11/29/2003

PATENT APPLICATION: US/10/714,564

TIME: 11:22:56

Input Set : E:\418.app.txt

Output Set: N:\CRF4\11282003\J714564.raw

```

136 <220> FEATURE:
137 <223> OTHER INFORMATION: Calcium binding motif
139 <220> FEATURE:
140 <221> NAME/KEY: VARIANT
141 <222> LOCATION: 1,3
142 <223> OTHER INFORMATION: Xaa = any amino acid
145 <400> SEQUENCE: 7
W--> 146 Xaa Asp Xaa Glu
147 1
150 <210> SEQ ID NO: 8
151 <211> LENGTH: 5
152 <212> TYPE: PRT
153 <213> ORGANISM: unknown
155 <220> FEATURE:
156 <223> OTHER INFORMATION: Calcium binding motif
158 <220> FEATURE:
159 <221> NAME/KEY: VARIANT
160 <222> LOCATION: 2,3,5
161 <223> OTHER INFORMATION: Xaa = any amino acid
164 <400> SEQUENCE: 8
W--> 165 Asp Xaa Xaa Asp Xaa
166 1 5
169 <210> SEQ ID NO: 9
170 <211> LENGTH: 4
171 <212> TYPE: PRT
172 <213> ORGANISM: unknown
174 <220> FEATURE:
175 <223> OTHER INFORMATION: Calcium binding motif
177 <400> SEQUENCE: 9
178 Met Asp Arg Glu
179 1
182 <210> SEQ ID NO: 10
183 <211> LENGTH: 4
184 <212> TYPE: PRT
185 <213> ORGANISM: unknown
187 <220> FEATURE:
188 <223> OTHER INFORMATION: Calcium binding motif
190 <400> SEQUENCE: 10
191 Leu Asp Phe Glu
192 1
195 <210> SEQ ID NO: 11
196 <211> LENGTH: 4
197 <212> TYPE: PRT
198 <213> ORGANISM: unknown
200 <220> FEATURE:
201 <223> OTHER INFORMATION: Calcium binding motif
203 <400> SEQUENCE: 11
204 Leu Asp Tyr Glu
205 1

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/714,564

DATE: 11/29/2003

TIME: 11:22:56

Input Set : E:\418.app.txt

Output Set: N:\CRF4\11282003\J714564.raw

208 <210> SEQ ID NO: 12
 209 <211> LENGTH: 4
 210 <212> TYPE: PRT
 211 <213> ORGANISM: Unknown
 213 <220> FEATURE:
 214 <223> OTHER INFORMATION: Calcium binding motif
 216 <400> SEQUENCE: 12
 217 Ile Asp Arg Glu
 218 1
 221 <210> SEQ ID NO: 13
 222 <211> LENGTH: 4
 223 <212> TYPE: PRT
 224 <213> ORGANISM: Unknown
 226 <220> FEATURE:
 227 <223> OTHER INFORMATION: Calcium binding motif
 229 <400> SEQUENCE: 13
 230 Val Asp Arg Glu
 231 1
 234 <210> SEQ ID NO: 14
 235 <211> LENGTH: 4
 236 <212> TYPE: PRT
 237 <213> ORGANISM: Unknown
 239 <220> FEATURE:
 240 <223> OTHER INFORMATION: Calcium binding motif
 242 <400> SEQUENCE: 14
 243 Ile Asp Phe Glu
 244 1
 247 <210> SEQ ID NO: 15
 248 <211> LENGTH: 11
 249 <212> TYPE: PRT
 250 <213> ORGANISM: Unknown
 252 <220> FEATURE:
 253 <223> OTHER INFORMATION: Third calcium binding motif found within most
 254 cadherin repeats
W--> 256 <221> NAME/KEY: VARIANT
 257 <222> LOCATION: 1
 258 <223> OTHER INFORMATION: Xaa = Leu, Ile or Val
W--> 260 <221> VARIANT
 261 <222> LOCATION: 3
 262 <223> OTHER INFORMATION: Xaa = Leu, Ile or Val
W--> 264 <221> VARIANT
 265 <222> LOCATION: 9
 266 <223> OTHER INFORMATION: Xaa = Asn or His
W--> 268 <400> 15
W--> 269 Xaa Xaa Xaa Xaa Asp Xaa Asn Asp Xaa Xaa Pro
 270 1 5 10
 273 <210> SEQ ID NO: 16
 274 <211> LENGTH: 6
 275 <212> TYPE: PRT

*what about Xaa's at
locations 2, 4, 6, and 10?*

RAW SEQUENCE LISTING

DATE: 11/29/2003

PATENT APPLICATION: US/10/714,564

TIME: 11:22:56

Input Set : E:\418.app.txt

Output Set: N:\CRF4\11282003\J714564.raw

276 <213> ORGANISM: Artificial Sequence
278 <220> FEATURE:
279 <223> OTHER INFORMATION: Representative atypical cadherin Trp-containing
280 CAR sequence
282 <400> SEQUENCE: 16
283 Gly Trp Val Trp Asn Gln
284 1 5
287 <210> SEQ ID NO: 17
288 <211> LENGTH: 6
289 <212> TYPE: PRT
290 <213> ORGANISM: Artificial Sequence
292 <220> FEATURE:
293 <223> OTHER INFORMATION: Representative atypical cadherin Trp-containing
294 CAR sequence
296 <400> SEQUENCE: 17
297 Asp Trp Ile Trp Asn Gln
298 1 5
301 <210> SEQ ID NO: 18
302 <211> LENGTH: 6
303 <212> TYPE: PRT
304 <213> ORGANISM: Artificial Sequence
306 <220> FEATURE:
307 <223> OTHER INFORMATION: Representative atypical cadherin Trp-containing
308 CAR sequence
310 <400> SEQUENCE: 18
311 Ser Trp Met Trp Asn Gln
312 1 5
315 <210> SEQ ID NO: 19
316 <211> LENGTH: 6
317 <212> TYPE: PRT
318 <213> ORGANISM: Artificial Sequence
320 <220> FEATURE:
321 <223> OTHER INFORMATION: Representative atypical cadherin Trp-containing
322 CAR sequence
324 <400> SEQUENCE: 19
325 Ser Trp Val Trp Asn Gln
326 1 5
329 <210> SEQ ID NO: 20
330 <211> LENGTH: 6
331 <212> TYPE: PRT
332 <213> ORGANISM: Artificial Sequence
334 <220> FEATURE:
335 <223> OTHER INFORMATION: Representative atypical cadherin Trp-containing
336 CAR sequence
338 <400> SEQUENCE: 20
339 Gly Trp Met Trp Asn Gln
340 1 5
343 <210> SEQ ID NO: 21
344 <211> LENGTH: 4

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: **US/10/714,564**

DATE: 11/29/2003
TIME: 11:22:57

Input Set : E:\418.app.txt
Output Set: N:\CRF4\11282003\J714564.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 1,3,4,5,6
Seq#:3; Xaa Pos. -2
Seq#:5; Xaa Pos. 1,3
Seq#:7; Xaa Pos. 1,3
Seq#:8; Xaa Pos. 2,3,5
Seq#:15; Xaa Pos. 1,2,3,4,6,9,10
Seq#:167; Xaa Pos. 1,3,4,5,6
Seq#:1310; Xaa Pos. 2,3,4,5,6,7
Seq#:1311; Xaa Pos. 1,3,4,5,6,7,8
Seq#:1331; Xaa Pos. 2
Seq#:1332; Xaa Pos. 2
Seq#:1340; Xaa Pos. 5
Seq#:1343; Xaa Pos. 2
Seq#:1344; Xaa Pos. 2